Title (en)

CURRENT MEASUREMENT DEVICE

Title (de)

STROMMESSVORRICHTUNG

Title (fr)

DISPOSITIF DE MESURE DE COURANT

Publication

EP 3971587 A4 20230125 (EN)

Application

EP 20806018 A 20200511

Priority

- JP 2019091311 A 20190514
- JP 2020018802 W 20200511

Abstract (en)

[origin: EP3971587A1] A current measurement device includes: four or more triaxial magnetic sensors arranged to have predefined positional relationships such that magnetism-sensing directions thereof are parallel to each other; and a calculator configured to calculate currents flowing through a pair of conductors to be measured, which are arranged in proximity to each other, based on detection results of the four or more triaxial magnetic sensors and the positional relationships between the four or more triaxial magnetic sensors, the currents flowing in mutually opposite directions.

IPC 8 full level

G01R 15/20 (2006.01); **G01R 19/00** (2006.01); **G01R 33/00** (2006.01)

CPC (source: EP US)

G01D 5/14 (2013.01 - US); **G01R 15/207** (2013.01 - EP US); **G01R 19/0092** (2013.01 - US); G01R 33/0094 (2013.01 - EP); G01R 33/0206 (2013.01 - EP)

Citation (search report)

- [XYI] CN 108459192 A 20180828 - UNIV FUZHOU
- [XYI] US 2018164348 A1 20180614 - DONOLO MARCOS A [US]
- [A] WO 2018146964 A1 20180816 - ALPS ELECTRIC CO LTD [JP]
- [XY] DILHARA MALINDA ET AL: "Sensor platform for non-invasive ubiquitous current sensing", 2016 10TH INTERNATIONAL CONFERENCE ON SENSING TECHNOLOGY (ICST), IEEE, 11 November 2016 (2016-11-11), pages 1 - 5, XP033028866, DOI: 10.1109/ICSENST.2016.7796322
- See also references of WO 2020230753A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3971587 A1 20220323; **EP 3971587 A4 20230125**; JP 2020186991 A 20201119; JP 7001079 B2 20220119; US 2022214383 A1 20220707; WO 2020230753 A1 20201119

DOCDB simple family (application)

EP 20806018 A 20200511; JP 2019091311 A 20190514; JP 2020018802 W 20200511; US 202017609984 A 20200511